

AMENDMENTS TO THE ABSTRACT

Please substitute the following paragraph(s) for the abstract now appearing in the currently filed specification:

~~It is the object of the invention to provide a~~ method for the determination of characteristic layer parameters by means of spectral-optical measurements, that allow for precise measurements of the sample temperature even under the conditions of industrial growth processes, ~~i.e. wobbling samples and/or fast changes between sample carrier and sample and~~ furthermore avoids the detection of thermal radiation and reflected radiation by means of twofold phase sensitive frequency modulation by using so called chopper and lock-in amplifier respectively ~~several pyrometer. Therefore the~~ The wobbling and/or rotating of the sample to be measured is compensated and/or the pyrometer optical path and the optical path of the spectral-optical system are guided separately of each other and/or a separation of the radiation signal for the temperature measurement and the radiation signal for the spectral-optical measurement is implemented by blanking of the irradiated light.